EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("5739163").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/28 06:30
L2 .	2	("5523302").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/28 06:33
L3	6	"9736862"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/28 06:35
L4	2	("5773646").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/28 06:35
L5	18	("5523302").URPN.	USPAT	OR	ON	2007/06/28 08:52
L6	350	(562/431).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/28 08:53
L7	379	(562/471).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/28 08:54
L8	316	(562/472).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/28 08:54
L9	900	16 or 17 or 18	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/28 08:54
L10	27582	williamson	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/28 08:55
L11	11	I9 and I10	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/28 08:55

Welcome to STN International! Enter x:x

LOGINID: SSSPTA1623PAZ

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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                Web Page for STN Seminar Schedule - N. America
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NEWS 3 MAR 16 CASREACT coverage extended
NEWS 4 MAR 20 MARPAT now updated daily
NEWS 5 MAR 22 LWPI reloaded
NEWS 6 MAR 30 RDISCLOSURE reloaded with enhancements
NEWS 7 APR 02 JICST-EPLUS removed from database clusters and STN.
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NEWS 9 APR 30 CHEMCATS enhanced with 1.2 million new records
NEWS 10 APR 30 CA/CAplus enhanced with 1870-1889 U.S. patent records
NEWS 11 APR 30 INPADOC replaced by INPADOCDB on STN
NEWS 12 MAY 01 New CAS web site launched
NEWS 13 MAY 08
                CA/CAplus Indian patent publication number format defined
NEWS 14 MAY 14 RDISCLOSURE on STN Easy enhanced with new search and display
                fields
NEWS 15 MAY 21 BIOSIS reloaded and enhanced with archival data .
NEWS 16 MAY 21
                TOXCENTER enhanced with BIOSIS reload .
NEWS 17 MAY 21 CA/Caplus enhanced with additional kind codes for German
NEWS 18 MAY 22
                CA/CAplus enhanced with IPC reclassification in Japanese
NEWS 19 JUN 27
               CA/CAplus enhanced with pre-1967 CAS Registry Numbers
NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
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AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),

NEWS IPC8 For general information regarding STN implementation of IPC 8

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FILE 'HOME' ENTERED AT 06:02:47 ON 28 JUN 2007

=>
=> file reg
COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 06:02:58 ON 28 JUN 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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STRUCTURE FILE UPDATES: 27 JUN 2007 HIGHEST RN 939702-02-0 DICTIONARY FILE UPDATES: 27 JUN 2007 HIGHEST RN 939702-02-0

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http://www.cas.org/support/stngen/stndoc/properties.html

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10563057\10563057 prod variant 1.str

```
chain nodes :
1  2  3  10  17  18  19  20  21  22  23  24  25  26  32
ring nodes :
4  5  6  7  8  9  11  12  13  14  15  16
chain bonds :
1-2  1-11  2-3  3-4  3-10  17-18  18-19  19-20  19-21  22-23  23-24  24-25  24-26
ring bonds :
4-5  4-9  5-6  6-7  7-8  8-9  11-12  11-16  12-13  13-14  14-15  15-16
exact/norm bonds :
3-10  17-18  18-19  19-20  19-21  22-23  23-24  24-25  24-26
exact bonds :
1-2  1-11  2-3  3-4
normalized bonds :
4-5  4-9  5-6  6-7  7-8  8-9  11-12  11-16  12-13  13-14  14-15  15-16
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G1:[*1],[*2]

Match level:

1:CLASS 2:CLASS 3:CLASS 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 32:CLASS 33:Atom

Element Count : Node 18: Limited C, C1-24

Node 23: Limited C,C1-24

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam SAMPLE SEARCH INITIATED 06:03:29 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED -1350 TO ITERATE

100.0% PROCESSED 1350 ITERATIONS SEARCH TIME: 00.00.01

29 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE** BATCH **COMPLETE** 29204

24796 TO PROJECTED ITERATIONS: PROJECTED ANSWERS: 257 TO

L229 SEA SSS SAM L1

=> d scan

29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

Acetic acid, [4-benzo[b]thien-2-yl-5-methoxy-2-[3-oxo-3-(5-quinolinyl)-1propenyl]phenoxy]- (9CI)

903

MF C29 H21 N O5 S

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>

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```
chain nodes :
1 2 3 10 17 18 19 20 21 22 23 24 25 26 32
ring nodes :
4 5 6 7 8 9 11 12 13 14 15 16
chain bonds :
1-2 \quad 1-11 \quad 2-3 \quad 3-4 \quad 3-10 \quad 17-18 \quad 18-19 \quad 19-20 \quad 19-21 \quad 22-23 \quad 23-24 \quad 24-25 \quad 24-26
ring bonds :
4-5 4-9 5-6 6-7 7-8 8-9 11-12 11-16 12-13 13-14 14-15 15-16
exact/norm bonds :
3-10 \quad 17-18 \quad 18-19 \quad 19-20 \quad 19-21 \quad 22-23 \quad 23-24 \quad 24-25 \quad 24-26
exact bonds :
1-2 1-11 2-3 3-4
normalized bonds :
4-5 \quad 4-9 \quad 5-6 \quad 6-7 \quad 7-8 \quad 8-9 \quad 11-12 \quad 11-16 \quad 12-13 \quad 13-14 \quad 14-15 \quad 15-16
isolated ring systems :
containing 4 : 11 :
```

G1:[*1],[*2]

Match level:

1:CLASS 2:CLASS 3:CLASS 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 32:CLASS 33:Atom

Element Count : Node 18: Limited

C,C1-24

Node 23: Limited C,C1-24

L3 STRUCTURE UPLOADED

=> d 13

L3 HAS NO ANSWERS

L3

STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> search 13 sss sam
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SAMPLE SCREEN SEARCH COMPLETED - 1350 TO ITERATE

100.0% PROCESSED 1350 ITERATIONS

26 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 24796 TO 29204

PROJECTED ANSWERS: 215 TO 825

L4 26 SEA SSS SAM L3

=> d scan

L4 26 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN Butanoic acid, 4-[2,6-dimethoxy-4-[3-(4-methoxyphenyl)-3-oxo-1-propenyl]phenoxy]-, ethenyl ester (9CI)

MF C24 H26 O7

CI COM

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10563057\10563057 PV 1.str

```
chain nodes :
1 2 3 10 17 18 19 20 21 22 23 24 25 26 32 35 36 37 38 39 40
ring nodes :
4 5 6 7 8 9 11 12 13 14 15 16
chain bonds :
1-2 1-11 2-3 3-4 3-10 17-18 18-19 19-20 19-21 20-35 22-23 23-24 24-25
24-26 25-36 35-37 35-38 36-39 36-40
ring bonds :
4-5 4-9 5-6 6-7 7-8 8-9 11-12 11-16 12-13 13-14 14-15 15-16
exact/norm bonds :
3-10 17-18 18-19 19-20 19-21 20-35 22-23 23-24 24-25 24-26 25-36
exact bonds :
1 - 2 \quad 1 - 11 \quad 2 - 3 \quad 3 - 4 \quad 35 - 37 \quad 35 - 38 \quad 36 - 39 \quad 36 - 40
normalized bonds :
4-5 4-9 5-6 6-7 7-8 8-9 11-12 11-16 12-13 13-14 14-15 15-16
isolated ring systems :
```

containing 4 : 11 :

G1:[*1],[*2]

Match level:

1:CLASS 2:CLASS 3:CLASS 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 32:CLASS 33:Atom 35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS 40:CLASS Element Count :
Node 18: Limited C,C1-24

Node 23: Limited C,C1-24

L5 STRUCTURE UPLOADED

=> d 15 L5 HAS NO ANSWERS L5 STI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> search 15 sss sam
SAMPLE SEARCH INITIATED 06:08:48 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 192 TO ITERATE

100.0% PROCESSED 192 ITERATIONS

4 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 3009 TO 4671 PROJECTED ANSWERS: 4 TO 200

L6 4 SEA SSS SAM L5

=> d scan

L6 4 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN Propanoic acid, 2-[4-[(1E)-3-[4-(hexylthio)-3,5-dimethylphenyl]-3-oxo-1propenyl]-2,6-dimethylphenoxy]-2-methyl-, 1,1-dimethylethyl ester (9CI)
MF C33 H46 O4 S

Double bond geometry as shown.

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L6 4 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

Me C CH2) 5 - 0 Me Me O Me O Me Me

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 4 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN Propanoic acid, 2-[4-[(1E)-3-(4-chlorophenyl)-3-oxo-1-propen-1-yl]-2,6dimethylphenoxy]-2-methyl-, 1-methylethyl ester

MF C24 H27 C1 O4

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 4 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Propanoic acid, 2-[3-(1,1-dimethylethyl)-2-hydroxy-5-[3-(2-hydroxyphenyl)-3-oxo-1-propen-1-yl]phenoxy]-2-methyl-, 1-methylethyl ester
MF C26 H32 O6

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 4.95 5.16

FULL ESTIMATED COST

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=> 16

L7 4 L6

 \Rightarrow d 17 1-4 ti fbib abs

L7 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

TI Combinations of substituted 1,3-diphenylprop-2-en-1-one derivatives with other therapeutically active ingredients and their preparation, and use in the treatment of diseases

AN 2007:151078 CAPLUS

DN 146:229042

```
other therapeutically active ingredients and their preparation, and use in
     the treatment of diseases
IN
     Delhomel, Jean Francois; Caumont-Bertrand, Karine
PA
    Genfit, Fr.
    U.S. Pat. Appl. Publ., 98pp., Cont.-in-part of U.S. Ser. No. 520,079.
SO
     CODEN: USXXCO
DT
     Patent
     English
LA
FAN.CNT 2
     PATENT NO.
                        KIND
                               DATE
                                           APPLICATION NO.
                                                                  DATE
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                               20070208
    US 2007032543
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                                                              W 20030708
                                           WO 2003-FR2127
                                                              A2 20050422
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                         A1
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PATENT FAMILY INFORMATION:
FAN
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                               20050811
    US 2005176808
                         A1
                                           US 2003-520079
                                                                  20030708
```

Combinations of substituted 1,3-diphenylprop-2-en-1-one derivatives with

TI

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CN	1668565	Α	20050914	CN	2003-816366		20030708
				FR	2002-8571	Α	20020708
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			•	WO	2003-FR2127	W	20030708
				US	2005-520079	A2	20050422

OS MARPAT 146:229042

GΙ

$$x^{1}$$
 x^{2}
 x^{3}
 x^{4}
 x^{5}

AΒ The invention concerns substituted 1,3-diphenylprop-2-en-1-one derivs. of formula I and combinations of said derivs. with other therapeutically active ingredients. The invention also concerns compns. comprising said derivs. or said combinations and uses thereof, for the treatment of cerebrovascular diseases, pathol. related to inflammation, neurodegeneration, deregulations of lipid and/or glucose metabolism, cell proliferation and/or differentiation and/or skin or central nervous system ageing. Compds. of formula I wherein X1 is H, halo, (un) substituted alkyl, OH and derivs., SH and derivs.; X3 is H, thionitroso, OH, alkylcarbonyloxy, alkyloxy, thio, alkylthio, alkylcarbonylthio, or O and S to form benzopyran derivative or benzothiopyran derivative; X3 - X5 are independently OH and derivs., SH and derivs., H, and (un) substituted alkyl; X6 is O, NH, and NOH and derivs.; and their optical and geometric isomers, racemates, tautomers, salts, hydrates, and mixts. thereof, are claimed. Example compound II was prepared by condensation of 4-[(ethoxycarbonyl)dimethylmethoxy]acetophenone with 3,5-di-tert-butyl-4hydroxybenzaldehyde. All the invention compds. were evaluated for their

ΙI

Ι

antioxidant properties, PPAR activation, antiinflammatory activity neuroprotective effect, lipid metabolism effect, and antidiabetic activity.

- ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN L7
- ΤI Preparation of 1,3-diphenyl-2-propen-1-one as PPAR activators, particularly agonists, and antioxidants and their pharmaceutical and cosmetic compositions
- 2005:729631 CAPLUS AN
- DN 143:193809
- TΙ Preparation of 1,3-diphenyl-2-propen-1-one as PPAR activators, particularly agonists, and antioxidants and their pharmaceutical and cosmetic compositions
- Caumont-Bertrand, Karine; Delhomel, Jean-Francois IN
- Genfit, Fr. PΑ
- PCT Int. Appl., 153 pp. SO CODEN: PIXXD2
- DTPatent
- LΑ French

FAN.		2 TENT	NO.			KIN	D	DATE			APPI	ICAT	ION 1	NO.		D	ATE	•
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рате	IN 2006DN03732		070420	WO 2005-FR40 IN 2006-DN3732 FR 2004-123 WO 2005-FR40	W 20050107 20060629 A 20040108 W 20050107
FAN	2005:610755		m.n.	ADDITION NO	D
	PATENT NO.	KIND DA	TE 	APPLICATION NO.	DATE
PI	FR 2864956 FR 2864956		050715 060428	FR 2004-123	20040108
	AU 2005209446	A1 200	050811	AU 2005-209446	20050107
				FR 2004-123 FR 2004-9257	A 20040108 A 20040901
				WO 2005-FR40	W 20050107
	CA 2550576	A1 200	050811	CA 2005-2550576	20050107
				FR 2004-123 FR 2004-9257	A 20040108 A 20040901
	•			WO 2005-FR40	W 20050107
	WO 2005073184		050811	WO 2005-FR40	20050107
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	EP 1701938			EP 2005-717386	20050107
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				FR 2004-9257 WO 2005-FR40	A 20040901 W 20050107
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				FR 2004-123	A 20040108
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	BR 2005006718	A 200	070502	BR 2005-6718	W 20050107 20050107
				FR 2004-123	A 20040108
				FR 2004-9257	A 20040901
	NO 2006002824	A 200	061005	WO 2005-FR40 NO 2006-2824	W 20050107 20060616
	NO 2000002021	A 200		FR 2004-123	A 20040108
				FR 2004-9257	A 20040901
	TM 0006DM00730	n :00	070400	WO 2005-FR40	W 20050107
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				WO 2005-FR40	W 20050107
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^{*} STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [X7 = (un)substituted O-alkyl, S-alkyl; X1-X5 =

independently halo, thionitroso, alkoxy, aryloxy, S-alkyl, etc.; X6, X8 = independently H, halo, alkoxy, etc.; with provisos; with the exclusion of certain compds.] were prepared as peroxisome proliferator-activated receptor agonists and antioxidants. Ten biol. examples are given. For example, (E)-II $(m.p. = 177-179^{\circ})$ was prepared via condensation of 3,5-dimethyl-4-methylthioacetophenone (preparation given) with 3,5-dimethyl-4-hydroxybenzaldehyde, followed by O-alkylation of phenol with tert-Bu bromoisobutyrate and acidolysis of the ester. (E)-III displayed antioxidant properties as demonstrated by diminution of the production of conjugated dienes after Cu-induced LDL oxidation by 90%. (E)-IIshowed induced luciferase activity via PPARa/Gal4 transactivation with an induction factor of 17.05 at 1 μM . I are useful for treating cardiovascular diseases, dyslipidemia, syndrome X, diabetes, obesity, hypertension, inflammations, dermatol. diseases, cerebral ischemia and the disorders related tot he oxidative stress, for treating aging, in particular cutaneous aging.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
- TI Preparation of 1,3-diphenylprop-2-en-1-one as PPAR agonists and as antioxidants for treating cerebral ischemia and related diseases
- AN 2004:19768 CAPLUS
- DN 140:76897
- TI Preparation of 1,3-diphenylprop-2-en-1-one as PPAR agonists and as antioxidants for treating cerebral ischemia and related diseases
- IN Najib, Jamila; Caumont Bertrand, Karine
- PA Genfit S.A., Fr.
- SO Fr. Demande, 66 pp. CODEN: FRXXBL
- DT Patent
- LA French

FAN.CNT 2

WO 2003-FR2127 WO 2004005233 A1 20040115 WO 2003-FR2127 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE	
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FR 2002-8571 W0 2004005233 A1 20040115 W0 2003-FR2127 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE	20030708
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FR 2002-8571	
AU 2003264698 A1 20040123 AU 2003-264698	20030708
FR 2002-8571	A 20020708
WO 2003-FR2127	W 20030708
BR 2003012398 A 20050412 BR 2003-12398	
FR 2002-8571	A 20020708
WO 2003-FR2127	W 20030708
EP 1525177 A1 20050427 EP 2003-762749	20030708
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FR 2002-8571	A 20020708
WO 2003-FR2127	

	US 200	51768	80		A1		2005	0811		FR	2003- 2002- 2003-	8571			A	20030	708
	CN 166	3565			A		2005	0914		CN	2003- 2003- 2002-	8163	66			20030	708
	JP 200	55323	85		Т		2005	1027		JΡ	2002- 2004- 2002-	5188				20020	708
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AB Title compds. I [wherein X1 = halo, R1, G1R1; X2 = H, thionitroso, OH, alkylcarbonyloxy, alkyloxy, SH, alkylthio, alkylcarbonylthio or X2 = O or S that forms a 2-phenyl-4H-1-benzopyran-4-one with the carbon-3 of the propene chain; X3 = R3, G3R3; X4 = halo, thionitroso, R4, G4R4; X5 = R5, G5R5; X6 = O, NH and derivs.; R1, R3, R4, R5 = independently H, (un) substituted alkyl; G1, G3, G4, G5 = independently O or S; with at least one of X1, X3, X4, or X5 of formula GR and one of the R1, R3, R4, or R5 is a substituted radical, and that radical form a cycle, or is associated with a group G; their optical and geometrical isomers, racemates, tautomers, salts, hydrates and mixts.; with the exclusion of certain compds.] were prepared as peroxisome proliferator-activated receptors- α (PPAR α) agonists and as antioxidants for treating cerebral ischemia and related diseases. For example, II was prepared by mixed-Aldol condensation of ketone III with 4-hydroxy-3,5ditertbutylbenzaldehyde in the presence of ethanol/HCl. In an antioxidant test, selected I diminished the formation of oxidation product of LDL by AAPH by 33%. Selected I were PPARa agonists and showed induced luciferase activity via PPARa/Gal4 transactivation.

neuroprotectants useful for treating ischemia. THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN TIComposition based on substituted 1,3-diphenylprop-en-1-one derivatives, preparation and use as PPAR α agonists, antioxidants as well as antiinflammatory agents 2004:19750 CAPLUS AN140:76896 DN Composition based on substituted 1,3-diphenylprop-en-1-one derivatives, ΤI preparation and use as PPARα agonists, antioxidants as well as antiinflammatory agents Najib, Jamila; Caumont Bertrand, Karine ΙN Genfit S.A., Fr. PΑ Fr. Demande, 66 pp. SO CODEN: FRXXBL DTPatent LA French FAN.CNT 1 DATE PATENT NO. KIND APPLICATION NO. DATE -----A1 PΙ FR 2841784 20040109 FR 2002-8570 20020708 FR 2841784 В1 20070302 CA 2490993 **A**1 20040115 CA 2003-2490993 20030708 20030708 A 20020708 FR 2002-8570 WO 2003-FR2128 W 20030708 WO 2004005243 A2 20040115 WO 2003-FR2128 20030708 WO 2004005243 **A3** 20040422 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG FR 2002-8570 A 20020708 AU 2003264699 **A**1 20040123 AU 2003-264699 20030708 A 20020708 FR 2002-8570 WO 2003-FR2128 W 20030708 EP 1519908 A2 20050406 EP 2003-762750 20030708 EP 1519908 B1 20070613 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

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US 2005171149

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US 2005-520078

FR 2002-8570

WO 2003-FR2128

CN 2003-816351

FR 2002-8570

JP 2004-518891

FR 2002-8570 WO 2003-FR2128

NO 2004-5082 FR 2002-8570

WO 2003-FR2128

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AB Title compds. I [wherein X1 = halo, R1, G1R1; X2 = H, thionitroso, OH, alkylcarbonyloxy, alkyloxy, SH, alkylthio, alkylcarbonylthio or X2 = O or S that forms a 2-phenyl-4H-1-benzopyran-4-one with the carbon-3 of the propene chain; X3 = R3, G3R3; X4 = halo, thionitroso, R4, G4R4; X5 = R5, G5R5; X6 = O, NH and derivs.; R1, R3, R4, R5 = independently H, (un) substituted alkyl; G1, G3, G4, G5 = independently O or S; with at least one of X1, X3, X4, or X5 of formula GR and one of the R1, R3, R4, or R5 is a substituted radical, and that radical form a cycle, or is associated with a group G; their optical and geometrical isomers, racemates, tautomers, salts, hydrates and mixts.; with the exclusion of certain compds.] were prepared as peroxisome proliferator-activated receptors- α (PPAR α) agonists and as antioxidants for treating cerebral ischemia and related diseases. For example, II was prepared by mixed-Aldol condensation of ketone III with 4-hydroxy-3,5ditertbutylbenzaldehyde in the presence of ethanol/HCl. In an antioxidant test, selected I (10-3 M) diminished the formation of oxidation product of LDL by AAPH by 33%. Selected I were PPARα agonists, showing induced luciferase activity via $PPAR\alpha/Gal4$ transactivation with a factor of induction ranging from 10 to 60, 5-50 and 3-35 at 100 μM , 30 μM , and 10 µM resp. I and their compns. are useful for treating cardiovascular diseases, syndrome X, restenosis, diabetes, obesity, hypertension, inflammatory diseases, cancers or neoplasms (benign or malignant tumors), neurodegenerative diseases, dermatol. and the disorders related to the oxydative stress, for preventing and treating aging, and in particular cutaneous aging.

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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chain nodes :
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chain bonds :
1-2 1-11 2-3 3-4 3-10 17-18 18-19 19-20 19-21 20-36 22-23 23-24 24-25
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normalized bonds :
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G1:[*1],[*2]

Match level:

1:CLASS 2:CLASS 3:CLASS 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 32:CLASS 33:CLASS 35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS 40:CLASS 41:CLASS Element Count :
Node 18: Limited

C,C1-24 Node 23: Limited C,C1-24

L9 STRUCTURE UPLOADED

=> d 19 L9 HAS NO ANSWERS L9 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> search 19 sss sam
SAMPLE SEARCH INITIATED 06:14:34 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 192 TO ITERATE

100.0% PROCESSED 192 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 3009 TO 4671

PROJECTED ANSWERS: 0 TO . 0

L10 0 SEA SSS SAM L9

=> search 19 sss full FULL SEARCH INITIATED 06:14:45 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 4212 TO ITERATE

100.0% PROCESSED 4212 ITERATIONS 9 ANSWERS SEARCH TIME: 00.00.01

L11 9 SEA SSS FUL L9

=> d scan

L11 9 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN Propanoic acid, 2-[4-[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxo2-propen-1-yl]-3-hydroxyphenoxy]-2-methyl-, 1-methylethyl ester

MF C30 H40 O6

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):9

L11 9 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN Propanoic acid, 2-[3-hydroxy-4-[3-(4-hydroxy-3,5-dimethylphenyl)-1-oxo-2-propen-1-yl]phenoxy]-2-methyl-, 1-methylethyl ester

MF C24 H28 O6

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L11 9 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN Acetic acid, [3-[3-[5]-[bis[[(1,1-dimethylethoxy)carbonyl]amino]methylene] amino]phenyl]-1-oxo-2-propenyl]phenoxy]-, 1,1-dimethylethyl ester (9CI)

MF C32 H41 N3 O8

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L11 9 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

MF C21 H23 N O4

L11 9 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN IN Oxiranepropanoic acid, $\alpha-[4-[1-oxo-3-[3-(phenylmethoxy)-4-propoxyphenyl]-2-propenyl]-3,5-bis(phenylmethoxy)phenoxy]-, 1,1-dimethylethyl ester (9CI) MF C48 H50 O9$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L11 9 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN Propanoic acid, 2-[3-hydroxy-4-[3-(4-hydroxy-3,5-dimethoxyphenyl)-1-oxo-2-propen-1-yl]phenoxy]-2-methyl-, 1-methylethyl ester

MF C24 H28 O8

L11 9 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN 1,3-Imidazolidinedicarboxylic acid, 2-[[3-[3-[3-[2-(1,1-dimethylethoxy)-2oxoethoxy]phenyl]-3-oxo-1-propenyl]phenyl]imino]-, bis(1,1-dimethylethyl)
ester (9CI)

MF C34 H43 N3 O8

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L11 9 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

MF C21 H21 N O6

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 344.65 384.80

SINCE FILE ENTRY

TOTAL SESSION

CA SUBSCRIBER PRICE

0.00

-3.12

FILE 'CAPLUS' ENTERED AT 06:15:16 ON 28 JUN 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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(FILE 'HOME' ENTERED AT 06:02:47 ON 28 JUN 2007)

FILE 'REGISTRY' ENTERED AT 06:02:58 ON 28 JUN 2007

L1 STRUCTURE UPLOADED
L2 29 SEARCH L1 SSS SAM
L3 STRUCTURE UPLOADED
L4 26 SEARCH L3 SSS SAM
L5 STRUCTURE UPLOADED
L6 4 SEARCH L5 SSS SAM

FILE 'CAPLUS' ENTERED AT 06:09:46 ON 28 JUN 2007 4 L6

FILE 'REGISTRY' ENTERED AT 06:13:20 ON 28 JUN 2007

L8 101 SEARCH L5 SSS FULL
L9 STRUCTURE UPLOADED

L10 0 SEARCH L9 SSS SAM L11 9 SEARCH L9 SSS FULL

FILE 'CAPLUS' ENTERED AT 06:15:16 ON 28 JUN 2007

=> 18

L7

L12 8 L8

=> 111

L13 6 L11

=> save temp 112 pv1fnds/a
ANSWER SET L12 HAS BEEN SAVED AS 'PV1FNDS/A'

=> save temp 113 pv2fnds/a
ANSWER SET L13 HAS BEEN SAVED AS 'PV2FNDS/A'

=> d 114 1-3 ti fbib abs

- L14 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
- TI Combinations of substituted 1,3-diphenylprop-2-en-1-one derivatives with other therapeutically active ingredients and their preparation, and use in the treatment of diseases
- AN 2007:151078 CAPLUS
- DN 146:229042
- TI Combinations of substituted 1,3-diphenylprop-2-en-1-one derivatives with other therapeutically active ingredients and their preparation, and use in the treatment of diseases
- IN Delhomel, Jean François; Caumont-Bertrand, Karine
- PA Genfit, Fr.
- SO U.S. Pat. Appl. Publ., 98pp., Cont.-in-part of U.S. Ser. No. 520,079. CODEN: USXXCO
- DT Patent
- LA English

FAN.CNT 2

	PA	TENT 1	NO.			KIN	D :	DATE			APPL	ICAT	ION :	NO.		D	ATE	
ΡI	US	2007	0325	43		A1	_	2007	0208		 US 2	 006-	4930	40		2	0060.	726
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											WO 2	003-	FR21	27	1	w 2	0030	708
											US 2	005-	5200	79		A2 2	0050	422
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							•			•	FR 2	002-	8571	•	7	A 2	0020.	708

PATENT FAMILY INFORMATION:

FAN	2004:19 PATENT				KIN	D	DATE			APPL	ICAT	ION I	NO.		D.	ATE	
ΡI	FR 2841	900			A1		2004	0109		FR 2	002-	8571			2	0020	708
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	CA 2490	986			A 1		2004	0115		CA 2	003-	2490	986		2	0030	708
										FR 2	002-	8571			A 2	0020	708
										WO 2	003-	FR21	27	1	w 2	0030	708
	WO 2004	0052	33		A 1		2004	0115		WO 2	003-	FR21.	27		2	0030	708
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										FR 2	002-	8571		i	A 2	00201	708

AU	200326469	8	A1	20	040123	AU	2003-	26469	8		2	0030	708
						FR	2002-	8571		A	. 2	0020	708
						WO	2003-	FR212	7	W	2	0030	708
BR	200301239	8	Α	20	050412	BR	2003-	12398			2	0030	708
				•		FR	2002-	8571		А	2	0020	708
						WO	2003-	FR212	7	W	2	0030	708
EP	1525177		A1	20	050427	EP	2003-	76274	9		2	0030	708
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						FR	2002-	8571		Α	2	0020	708
						WO	2003~	FR212	7	W	2	0030	708
. US	200517680	. 8	A1	20	050811	US	2003-	52007	9		2	0030	708
						FR	2002-	8571		A	2	00207	708
						WO	2003-	FR212	7	W	2	00307	708
CN	1668565		Α	20	050914	CN	2003-	81636	6		2	00307	708
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JP	200553238	15	\mathbf{T}	20	051027	JP	2004-	51889	0		2	00307	708
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						WO	2003-	FR212	7	W	2	00307	708
US	200703254	3	A1	20	070208	US	2006-	49304	0		2	00607	726
						FR	2002-	8571		А	2	00207	708
						WO	2003-	FR212	7	W	2	00307	708
						US	2005-	52007	9	A	2 2	00504	122
MAI	RPAT 146:2	29042											

OS MARPAT 146:229042

GI

$$x^3$$
 x^4
 x^5
 x^6
 x^7

AB The invention concerns substituted 1,3-diphenylprop-2-en-1-one derivs. of formula I and combinations of said derivs. with other therapeutically active ingredients. The invention also concerns compns. comprising said derivs. or said combinations and uses thereof, for the treatment of cerebrovascular diseases, pathol. related to inflammation,

II

neurodegeneration, deregulations of lipid and/or glucose metabolism, cell proliferation and/or differentiation and/or skin or central nervous system ageing. Compds. of formula I wherein X1 is H, halo, (un)substituted alkyl, OH and derivs., SH and derivs.; X3 is H, thionitroso, OH, alkylcarbonyloxy, alkyloxy, thio, alkylthio, alkylcarbonylthio, or O and S to form benzopyran derivative or benzothiopyran derivative; X3 - X5 are independently OH and derivs., SH and derivs., H, and (un)substituted alkyl; X6 is O, NH, and NOH and derivs.; and their optical and geometric isomers, racemates, tautomers, salts, hydrates, and mixts. thereof, are claimed. Example compound II was prepared by condensation of 4-[(ethoxycarbonyl)dimethylmethoxy]acetophenone with 3,5-di-tert-butyl-4-hydroxybenzaldehyde. All the invention compds. were evaluated for their antioxidant properties, PPAR activation, antiinflammatory activity neuroprotective effect, lipid metabolism effect, and antidiabetic activity.

L14 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

TI Preparation of 1,3-diphenylprop-2-en-1-one as PPAR agonists and as antioxidants for treating cerebral ischemia and related diseases

AN 2004:19768 CAPLUS

DN 140:76897

TI Preparation of 1,3-diphenylprop-2-en-1-one as PPAR agonists and as antioxidants for treating cerebral ischemia and related diseases

IN Najib, Jamila; Caumont Bertrand, Karine

PA Genfit S.A., Fr.

SO Fr. Demande, 66 pp.

CODEN: FRXXBL

DT Patent

LA French

FAN.CNT 2

ran.	PATENT	NO.			KINI		DATE				ICAT		NO.		D.	ATE	
PI	FR 284 FR 284				A1, B1		2004 2007				002-				2	0020	708
	CA 249						2004				003- 002-				_	0030° 0020°	
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										FR Z	002-	85/T	07		A. 2	0020	708
	US 200	51760	NΘ		A1		2005	0011		wo Z	003-	Ľ K∠ 1. 5 2 0 0 '	2 70	,	N 2	0020° 0030° 0030° 0020° 0030°	/ U Ծ
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	CN 166	8565			А		2005	0914			003-			,		0030 0030	
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	JP 2005	5323	85		т		2005	1027		002- 004-						020' 030'	
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									WO 2	003-	FR21	27		W	20	030	708
									US 2	005-	5200	79		A2	20	0504	122
PATE	NT FAMIL	Y IN	FORM	ATIO	N:												
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	PATENT				KIN		DATE			ICAT					DA'	TE 	
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	FR 2841				A1		2004		FR 2	002-	8571				20	020	708
	FR 2841						2007		0	000	01						
	WO 2004																
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os	MARPAT	140:	7689	7													

GI

Title compds. I [wherein X1 = halo, R1, G1R1; X2 = H, thionitroso, OH, alkylcarbonyloxy, alkyloxy, SH, alkylthio, alkylcarbonylthio or X2 = O or · S that forms a 2-phenyl-4H-1-benzopyran-4-one with the carbon-3 of the propene chain; X3 = R3, G3R3; X4 = halo, thionitroso, R4, G4R4; X5 = R5, G5R5; X6 = O, NH and derivs.; R1, R3, R4, R5 = independently H, (un) substituted alkyl; G1, G3, G4, G5 = independently O or S; with at least one of X1, X3, X4, or X5 of formula GR and one of the R1, R3, R4, or R5 is a substituted radical, and that radical form a cycle, or is associated with a group G; their optical and geometrical isomers, racemates, tautomers, salts, hydrates and mixts.; with the exclusion of certain compds.] were prepared as peroxisome proliferator-activated receptors- α (PPAR α) agonists and as antioxidants for treating cerebral ischemia and related diseases. For example, II was prepared by mixed-Aldol condensation of ketone III with 4-hydroxy-3,5ditertbutylbenzaldehyde in the presence of ethanol/HCl. In an antioxidant test, selected I diminished the formation of oxidation product of LDL by AAPH by 33%. Selected I were PPARa agonists and showed induced luciferase activity via PPARa/Gal4 transactivation. I are neuroprotectants useful for treating ischemia.

RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L14 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
- Composition based on substituted 1,3-diphenylprop-en-1-one derivatives, preparation and use as PPAR α agonists, antioxidants as well as antiinflammatory agents
- AN 2004:19750 CAPLUS
- DN 140:76896
- TI Composition based on substituted 1,3-diphenylprop-en-1-one derivatives, preparation and use as PPAR α agonists, antioxidants as well as antiinflammatory agents
- IN Najib, Jamila; Caumont Bertrand, Karine
- PA Genfit S.A., Fr.
- SO Fr. Demande, 66 pp.

CODEN: FRXXBL

- DT Patent
- LA French

FAN.		1 CENT	NO.			KIN		DATE			API	PLI	CAT	ION 1	NO.		D	ATE	
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Title compds. I [wherein X1 = halo, R1, G1R1; X2 = H, thionitroso, OH, AB alkylcarbonyloxy, alkyloxy, SH, alkylthio, alkylcarbonylthio or X2 = O or S that forms a 2-phenyl-4H-1-benzopyran-4-one with the carbon-3 of the propene chain; X3 = R3, G3R3; X4 = halo, thionitroso, R4, G4R4; X5 = R5, G5R5; X6 = O, NH and derivs.; R1, R3, R4, R5 = independently H, (un) substituted alkyl; G1, G3, G4, G5 = independently O or S; with at least one of X1, X3, X4, or X5 of formula GR and one of the R1, R3, R4, or R5 is a substituted radical, and that radical form a cycle, or is associated with a group G; their optical and geometrical isomers, racemates, tautomers, salts, hydrates and mixts.; with the exclusion of certain compds.] were prepared as peroxisome proliferator-activated receptors- α (PPAR α) agonists and as antioxidants for treating cerebral ischemia and related diseases. For example, II was prepared by mixed-Aldol condensation of ketone III with 4-hydroxy-3,5ditertbutylbenzaldehyde in the presence of ethanol/HCl. In an antioxidant test, selected I (10-3 M) diminished the formation of oxidation product of LDL by AAPH by 33%. Selected I were PPARα agonists, showing induced luciferase activity via PPARα/Gal4 transactivation with a factor of induction ranging from 10 to 60, 5-50 and 3-35 at 100 μ M, 30 μ M, and 10 µM resp. I and their compns. are useful for treating cardiovascular diseases, syndrome X, restenosis, diabetes, obesity, hypertension, inflammatory diseases, cancers or neoplasms (benign or malignant tumors), neurodegenerative diseases, dermatol. and the disorders related to the oxydative stress, for preventing and treating aging, and in particular cutaneous aging.

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> williamson

L15 1593 WILLIAMSON

=> 112 or 113

L16 11 L12 OR L13

=> 115 and 116

L17 0 L15 AND L16

=> logoff hold

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ENTRY SESSION
FULL ESTIMATED COST
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL

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CA SUBSCRIBER PRICE

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SESSION WILL BE HELD FOR 120 MINUTES
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Connecting via Winsock to STN

Welcome to STN International! Enter x:x

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COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)
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L16 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN
     Preparation of 1,3-diphenylprop-2-en-1-one as PPAR agonists and as
     antioxidants for treating cerebral ischemia and related diseases
     2004:19768 CAPLUS
AN
     140:76897
DΝ
ΤI
     Preparation of 1,3-diphenylprop-2-en-1-one as PPAR agonists and as
     antioxidants for treating cerebral ischemia and related diseases
     Najib, Jamila; Caumont Bertrand, Karine
ΙN
PΑ
     Genfit S.A., Fr.
SO
     Fr. Demande, 66 pp.
     CODEN: FRXXBL
DΤ
     Patent
LA
     French
FAN.CNT 2
     PATENT NO.
                         KIND
                                DATE
                                            APPLICATION NO.
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PATENT FAMILY INFORMATION:
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Title compds. I [wherein X1 = halo, R1, G1R1; X2 = H, thionitroso, OH, AB alkylcarbonyloxy, alkyloxy, SH, alkylthio, alkylcarbonylthio or X2 = O or S that forms a 2-phenyl-4H-1-benzopyran-4-one with the carbon-3 of the propene chain; X3 = R3, G3R3; X4 = halo, thionitroso, R4, G4R4; X5 = R5, G5R5; X6 = O, NH and derivs.; R1, R3, R4, R5 = independently H, (un) substituted alkyl; G1, G3, G4, G5 = independently O or S; with at least one of X1, X3, X4, or X5 of formula GR and one of the R1, R3, R4, or R5 is a substituted radical, and that radical form a cycle, or is associated with a group G; their optical and geometrical isomers, racemates, tautomers, salts, hydrates and mixts.; with the exclusion of certain compds.] were prepared as peroxisome proliferator-activated receptors- α (PPAR α) agonists and as antioxidants for treating cerebral ischemia and related diseases. For example, II was prepared by mixed-Aldol condensation of ketone III with 4-hydroxy-3,5ditertbutylbenzaldehyde in the presence of ethanol/HCl. In an antioxidant test, selected I diminished the formation of oxidation product of LDL by AAPH Selected I were PPARa agonists and showed induced luciferase activity via PPARa/Gal4 transactivation. I are neuroprotectants useful for treating ischemia.

RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L16 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN
- TI Composition based on substituted 1,3-diphenylprop-en-1-one derivatives, preparation and use as PPAR α agonists, antioxidants as well as antiinflammatory agents
- AN 2004:19750 CAPLUS
- DN 140:76896
- TI Composition based on substituted 1,3-diphenylprop-en-1-one derivatives, preparation and use as PPAR α agonists, antioxidants as well as antiinflammatory agents
- IN Najib, Jamila; Caumont Bertrand, Karine
- PA Genfit S.A., Fr.
- SO Fr. Demande, 66 pp. CODEN: FRXXBL
- DT Patent
- LA French
- FAN.CNT 1

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MARPAT 140:76896
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OS

GΙ

Title compds. I [wherein X1 = halo, R1, G1R1; X2 = H, thionitroso, OH, alkylcarbonyloxy, alkyloxy, SH, alkylthio, alkylcarbonylthio or X2 = O or S that forms a 2-phenyl-4H-1-benzopyran-4-one with the carbon-3 of the propene chain; X3 = R3, G3R3; X4 = halo, thionitroso, R4, G4R4; X5 = R5, G5R5; X6 = O, NH and derivs.; R1, R3, R4, R5 = independently H, (un) substituted alkyl; G1, G3, G4, G5 = independently O or S; with at least one of X1, X3, X4, or X5 of formula GR and one of the R1, R3, R4, or R5 is a substituted radical, and that radical form a cycle, or is associated with a group G; their optical and geometrical isomers, racemates, tautomers, salts, hydrates and mixts.; with the exclusion of certain compds.] were prepared as peroxisome proliferator-activated receptors- α (PPAR α) agonists and as antioxidants for treating cerebral ischemia and related diseases. For example, II was prepared by mixed-Aldol condensation of ketone III with 4-hydroxy-3,5ditertbutylbenzaldehyde in the presence of ethanol/HCl. In an antioxidant test, selected I (10-3 M) diminished the formation of oxidation product of LDL by AAPH by 33%. Selected I were PPARa agonists, showing induced luciferase activity via $PPAR\alpha/Gal4$ transactivation with a factor of induction ranging from 10 to 60, 5-50 and 3-35 at 100 μM , 30 μM , and 10 µM resp. I and their compns. are useful for treating cardiovascular diseases, syndrome X, restenosis, diabetes, obesity, hypertension, inflammatory diseases, cancers or neoplasms (benign or malignant tumors), neurodegenerative diseases, dermatol. and the disorders related to the oxydative stress, for preventing and treating aging, and in particular cutaneous aging.

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN

Preparation of 3-guanidinophenylamides and related compounds as integrin $\alpha \nu \beta 3$ inhibitors or antagonists.

1998:430106 CAPLUS AN

129:108912 DN

Preparation of 3-guanidinophenylamides and related compounds as integrin TΙ $\alpha v\beta 3$ inhibitors or antagonists.

Chandrakumar, Nizal; Chen, Barbara B.; Chen, Helen Y.; Clare, Michael; Gasiecki, Alan F.; Haack, Richard A.; Malecha, James W.; Ruminski, Peter G.; Russell, Mark A.

PAG.D. Searle and Co., USA

U.S., 77 pp. SO CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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ΡI	US 5773646	Α	19980630	US 1997-825086	19970327
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os	MARPAT 129:108912		•		

GΙ

AΒ Title compds. [I; A = NR5C(Y1)NR7R8, etc.; Y1 = NR2, O, S; R2 = H, alkyl, aryl, OH, alkoxy, cyano, NO2, amino, aminocarbonyl, alkenyl, alkynyl, (substituted) alkyl, aryl, heterocyclyl; R2R7 = (substituted) heterocyclyl; R7, R8 = H, alkyl, alkenyl, alkynyl, aralkyl, cycloalkyl, bicycloalkyl, aryl, acyl, benzoyl, (substituted) alkyl, heterocyclyl, etc.; NR7R8 = (substituted) mono- or bicyclic heterocyclyl; R5 = H, alkyl, alkenyl, alkynyl, PhCH2, PhCH2CH2; Z1, Z2, Z4, Z5 = H, alkyl, OH, alkoxy, aryloxy, aralkoxy, halo, haloalkyl, haloalkoxy, NO2, amino, aminoalkyl, alkylamino, dialkylamino, cyano, alkylthio, alkylsulfonyl, carboxyl derivs., (fused) aryl; cycloalkyl, (fused) heterocyclyl, A; B = SO2NR50, CONR50(CH2)p, CH2O, SOCH2, SO2CH2, etc.; p = 0-2; R50 = H, alkyl; Y = (CHR70)q, O; q = 0, 1; R70 = H, alkyl, (substituted) aryl; m = 0-2; R = 0XR3; X = O, S, NR4; R3, R4 = H, alkyl, alkenyl, alkynyl, halolalkyl, aryl, aralkyl, etc.; Y3, Z3 = H, alkyl, aryl, cycloalkyl, aralkyl; R1 = H, alkyl, aryl, etc.], were prepared Thus, 3-[[[3-[(aminomiminomethyl)amino]phenyl]sulfonyl]amino]- β phenylbenzenepropanoic acid trifluoroacetate (preparation given) inhibited

vitronectin adhesion with IC50 = 16.7 nM. THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 8 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN

Preparation of meta-substituted phenylene derivatives and their use as $\alpha \nu \beta 3$ integrin antagonists or inhibitors

AN 1997:679052 CAPLUS

127:318772 DN

TΙ Preparation of meta-substituted phenylene derivatives and their use as $\alpha \nu \beta 3$ integrin antagonists or inhibitors

IN Chandrakumar, Nizal; Chen, Barbara B.; Chen, Helen; Clare, Michael; Gasiecki, Alan F.; Haack, Richard A.; Malecha, James W.; et al.

G.D. Searle and Co., USA; Chandrakumar, Nizal; Chen, Barbara B.; Chen, PΑ Helen; Clare, Michael; Gasiecki, Alan F. PCT Int. Appl., 306 pp. CODEN: PIXXD2

SO

DTPatent LA English FAN.CNT 1

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The present invention relates to a class of compds., i.e, phenylalkanoic AB acid and phenoxyacetic acid derivs., represented by formula [I; A = (un) substituted NHC(:NH)NH, NHCONH, NHC(:S)NH, or NHCH:NH, C(:NH)NH2, C(:NOH)NH2; Z1 - Z5 = H, alkyl, OH, alkoxy, aryloxy, aralkoxy, halo, haloalkyl, haloalkoxy, NO2, NH2, aminoalkyl, alkylamino, dialkylamino, cyano, etc.; B = N-(un)substituted CONH(CH2)p or SO2NH, NHCONH(CH2)p, CO2(CH2)p, CH2CH2, alkenylene or alkynylene optionally substituted by oxo, CH2O, SCH2, SOCH2, SO2 CH2, CH(OH)CH2O, CH:CHCO; wherein p = 0, 1,2; Y = 0(un) substituted (CH2) q, O; q = 0,1; m = 0, 1,2; R = X-R3; wherein X = 0, S, (un) substituted NH; R3 = H, alkyl, alkenyl, alkynyl, haloalkyl, aryl, aralkyl, sugar or steroid residue; Y3, Z3 = H, alkyl, aryl, cycloalkyl, aralkyl; R1 = H, alkyl, aryl, NHCOR51, NHCO2R12, NHCOR12, NHSO2R12, NHCONHR12; wherein R12 = H, alkyl, cycloalkyl, aralkyl, aryl; R51 = N-substituted pyrrolidinyl, piperidinyl, or morpholinyl] or pharmaceutically acceptable salts thereof are prepared Also claimed are pharmaceutical compns. comprising above compds. I and methods of selectively inhibiting or antagonizing avß3 integrin. A method for treating conditions mediated by $\alpha v \beta 3$ integrin, e.g. tumor metastasis, solid tumor growth, angiogenesis, osteoporosis, humoral hypercalcemia of malignancy, smooth muscle cell migration, restenosis, in a mammal comprises administering an effective $\alpha \nu \beta 3$ integrin-inhibiting amount of above compds. I. Thus, 3-(3aminobenzenesulfonamido)-3-phenylpropanoic acid derivative (II; R10 = H) was condensed with N,N'-bis(tert-butoxycarbonyl)-2-(1H)tetrahydropyrimidinethione followed by deprotection to give II (R10 = 0), which showed IC50 of 0.75 nM for 50% inhibition of the maximum binding of biotinylated vitronectin to human vitronectin receptor $(\alpha v\beta 3)$ purified from human placenta (Niiya et al., Blood, 1987).

Ι

- L16 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN
- TI Aromatic compounds containing basic and acidic termini useful as fibrinogen receptor antagonists
- AN 1996:392101 CAPLUS
- DN 125:96084
- TI Aromatic compounds containing basic and acidic termini useful as

fibrinogen receptor antagonists

- IN Cain, Gary A.; Eyermann, Charles J.
- PA Du Pont Merck Pharmaceutical Co., USA
- SO U.S., 43 pp. CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	US 5523302	Α	19960604	US 1993-157860	19931124
	US 5739163	Α	19980414	US 1996-612597	19960308
				US 1993-157860	A3 19931124

OS MARPAT 125:96084 ·

- AB This invention relates to novel compds. containing basic and acidic termini, pharmaceutical compns. containing such compds., processes for preparing such compds., and methods of using these compds., alone or in combination with other therapeutic agents, for the inhibition of platelet aggregation, as thrombolytics, and/or for the treatment of thromboembolic disorders.
- L16 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN
- TI Studies on anti-allergic agent. I. 1,2,3-Trisubstituted 2-propen-1-one derivatives, 3,4-disubstituted 4-oxo-2-butenoic acids and the related compounds.
- AN 1991:207137 CAPLUS
- DN 114:207137
- TI Studies on anti-allergic agent. I. 1,2,3-Trisubstituted 2-propen-1-one derivatives, 3,4-disubstituted 4-oxo-2-butenoic acids and the related compounds.
- AU Hirao, Hirohiko; Fujita, Takayuki; Iwasaki, Yoshiya; Ide, Hisao; Inoue, Sachiko; Kitagawa, Koki; Futaki, Shiroh; Kawanishi, Hirofumi; Akita, Tadashi
- CS Shikoku Chem. Co., Ltd., Tokushima, 771-02, Japan
- SO Yakugaku Zasshi (1990), 110(10), 727-36 CODEN: YKKZAJ; ISSN: 0031-6903
- DT Journal
- LA Japanese

GI

AB A new series of trisubstituted propenone derivs. (I; X = CH, N; R = 2-, 3-, 4-Cl, 4-Br, F, OMe, OEt, OPh, Ph, H; Y = CO, CHOH; R1 = dialkylaminoethoxy, alkylcarbomethoxy) and disubstituted oxobutenoic acids (II; R2 = H, alkyl; R3 = H, Ph, OPh, alkoxy, F, Cl, Br) were synthesized. Inhibitory activities against rat passive cutaneous anaphylaxis (PCA) reaction and histamine release from rat mast cells were tested. The ester derivs. (I; R = 4-Cl; R1 = alkylcarbomethoxy) and (II; R2 = alkyl) exhibited a more potent inhibitory activity against histamine release compared with the other derivs., but were somewhat weaker in their anti-PCA activity. Structure-activity relationships were discussed.

TI Dihydrochalcone sweeteners. A study of the atypical temporal phenomena AN 1981:137933 CAPLUS
DN 94:137933
TI Dihydrochalcone sweeteners. A study of the atypical temporal phenomena AU DuBois, Grant E.; Crosby, Guy A.; Stephenson, Rebecca A.

CS Chem. Synth. Lab., Dynapol, Palo Alto, CA, 94304, USA SO Journal of Medicinal Chemistry (1981), 24(4), 408-28 CODEN: JMCMAR; ISSN: 0022-2623

L16 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN

CODEN: JMCMAR; ISSN: UU22-2623 DT Journal

DT Journal LA English GI

RCH2O — COCH2CH2 — OMe
$$@x$$

II, R=COCH₂CO₂H, X=Na
III, R=CH₂CH₂PO₃H₂, X=K
IV, R=CH₂NHSO₃H, X=K

V, R=CH2CH(OH)CO2H, X=Na

AB Neohesperidin dihydrochalcone (I) [20702-77-6] has 340 times the sweetness of sucrose, but is not much used as a sweetener because of its poor temporal properties, i.e. the sweetness is slow to develop in the mouth and there is a prolonged, unpleasant aftertaste. Forty-four analogs of I were synthesized and tested to determine whether the temporal properties of I were due to metabolism, conformation, chelation, or hydrophobicity. None of these possibilities were strongly supported. Four of the analogs, II [76799-09-2], III [76799-10-5], IV [70412-97-4], and V [76799-11-6] were 280-440 times sweeter than sucrose and may be useful in some food systems. However, their temporal taste characteristics were no better than those of I.

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=>

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chain nodes :

1 2 3 4 5 6 8 9

chain bonds :

1-2 2-3 3-4 3-6 4-5 5-8 5-9

exact/norm bonds :

1-2 2-3 3-4 3-6 4-5

exact bonds :

5-8 5-9

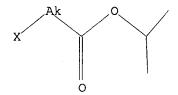
Match level:

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 8:CLASS 9:CLASS

Element Count: Node 2: Limited C,C1-24

L18 STRUCTURE UPLOADED

=> d 118 L18 HAS NO ANSWERS L18 STR



Structure attributes must be viewed using STN Express query preparation.

=> search 118 sss sam
SAMPLE SEARCH INITIATED 06:53:07 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 77460 TO ITERATE

2.6% PROCESSED 2000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

24 ANSWERS

FULL FILE PROJECTIONS:

ONLINE **INCOMPLETE**

BATCH **INCOMPLETE**

PROJECTED ITERATIONS:

1532643 TO 1565757

PROJECTED ANSWERS:

16761 TO 20419

L19

24 SEA SSS SAM L18

=> d scan

L19 24 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN IN Benzeneacetic acid, α -methoxy- α -(trifluoromethyl)-, 1-(2-methoxy-2-oxoethyl)-9-propyl-1,9-nonanediyl ester, [1S-[1R*(S*),9R*(S*)]]- (9CI) MF C35 H44 F6 O8

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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